

WORKSHEET FOR CALCULATION OF STATIC COLUMN WELLHEAD PRESSURE (P_w)COMPANY Gulf Oil Exp. + Prod. LEASE Eddy FV St. Comm WELL NO. 1 DATE 4/19/84LOCATION: Unit H Section 25 Township 20 S Range 27 EL 10376 H 10376 L/H 1000 G .6598 % CO₂ 1.291 % N₂ 7.455 % H₂Sd 1.995 F_r .018231 GH 6846 P_{CT} 663 T_{CT} 360
1st Rate 2nd Rate 3rd Rate

LINE	1st	2nd	1st	2nd	1st	2nd	1st	2nd
1 Q _m								
2 T _w (W.H. °R)	.133	.133	.194	.194	.284	.284	.434	.434
3 T _s (B.H. °R)	534	534	534	534	534	534	534	534
4 T = $\frac{(T_w + T_s)}{2}$	628	628	628	628	628	628	628	628
5 Z (Est.)	586	586	586	586	586	586	586	586
6 TZ	.820	.820	.817	.829	.816	.823	.818	.819
7 GH/TZ	480.5	489.3	478.8	485.8	478.2	482.3	479.3	479.3
8 e ^s (Table XIV)	14.207	13.991	14.299	14.092	14.317	14.195	14.282	14.282
9 1-e ^s (Table XIV)	.996	.996	.996	.996	.996	.996	.996	.996
10 P _t	2704.2	2704.2	2598.2	2598.2	2455.2	2455.2	2288.2	2288.2
11 P _t ² /1000	7312.7	7312.7	6750.6	6750.6	6028.0	6028.0	5235.9	5235.9
12 F _r (Table XV)	.018231	.018231	.018231	.018231	.018231	.018231	.018231	.018231
13 F _c = F _r TZ	8.738	8.738	8.857	8.718	8.792	8.792	8.739	8.739
14 F _c Q _m	1.693	1.693	1.718	1.718	2.476	2.476	2.792	2.792
15 L/H (F _c Q _m) ²	1.190	1.190	1.190	1.190	6.130	6.130	14.385	14.385
16 F _w = L/H (F _c Q _m) ² (1-e ^s)	.262	.262	.262	.262	.262	.262	.262	.262
17 P _w ² = P _t ² + F _w	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2
18 P _s ² = e ^s P _w ²	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7
19 P _s	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
20 P = $\frac{(P_t + P_s)}{2}$	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2
21 P _r = (P/P _{CT})	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
22 T _r = (T/T _{CT})	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
23 Z (Table XI)	1.235	1.235	1.235	1.235	1.235	1.235	1.235	1.235

